



K D Campus Pvt. Ltd

2007, OUTRAM LINES, 1ST FLOOR, NEAR GTB NAGAR METRO STATION, GATE NO. - 2, DELHI-110009

Answer-key & Solution

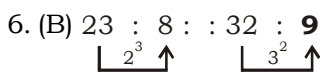
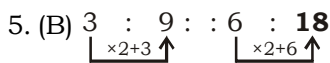
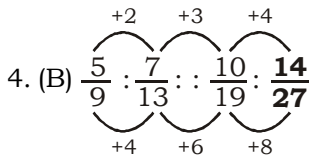
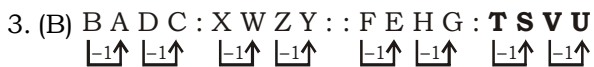
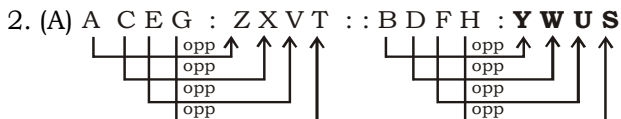
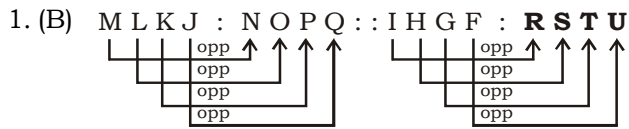
**SSC JE (Civil)
Practice Set-8**

1. B	26. D	51. C	76. D	101. C	126. D	151. B	176. C
2. A	27. B	52. D	77. C	102. A	127. C	152. C	177. D
3. B	28. B	53. a	78. A	103. B	128. A	153. C	178. A
4. B	29. A	54. B	79. B	104. B	129. B	154. B	179. D
5. B	30. B	55. D	80. B	105. C	130. A	155. D	180. C
6. B	31. B	56. C	81. B	106. C	131. A	156. D	181. B
7. C	32. B	57. C	82. B	107. D	132. A	157. C	182. B
8. A	33. C	58. C	83. B	108. B	133. D	158. C	183. D
9. C	34. B	59. B	84. D	109. C	134. B	159. A	184. A
10. D	35. C	60. D	85. C	110. B	135. B	160. D	185. D
11. C	36. C	61. A	86. A	111. A	136. D	161. B	186. B
12. A	37. C	62. A	87. D	112. C	137. C	162. D	187. A
13. D	38. A	63. C	88. A	113. B	138. C	163. D	188. C
14. D	39. B	64. D	89. D	114. C	139. A	164. C	189. B
15. D	40. D	65. B	90. A	115. B	140. B	165. C	190. B
16. B	41. B	66. A	91. B	116. C	141. A	166. B	191. B
17. A	42. D	67. C	92. D	117. A	142. C	167. D	192. A
18. D	43. B	68. C	93. C	118. B	143. A	168. C	193. C
19. A	44. B	69. C	94. A	119. C	144. D	169. A	194. A
20. D	45. C	70. B	95. B	120. B	145. A	170. B	195. D
21. D	46. A	71. C	96. D	121. C	146. C	171. B	196. D
22. C	47. B	72. B	97. C	122. D	147. A	172. B	197. C
23. D	48. A	73. A	98. C	123. D	148. A	173. C	198. B
24. D	49. D	74. D	99. C	124. C	149. C	174. C	199. C
25. D	50. B	75. B	100. B	125. C	150. B	175. A	200. A

Note : *If your opinion differ regarding any answer, please message the mock test and Question number to 9560620353*

Note : *If you face any problem regarding result or marks scored, please contact : 9313111777*

SOLUTION SSC JE (Civil) Practice Set-8

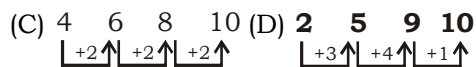
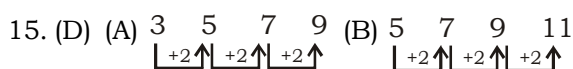


11. (C) Except (C) all are played by vibrating the strings.

12. (A) Except (A) second number is divisible by first number

13. (D) Others are names of planets

14. (D) Except (D) all are religious books



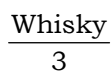
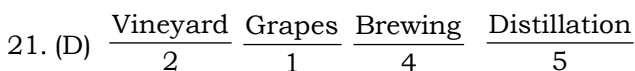
16. (B) Except (B) all are even numbers

17. (A) Tagore was a litterateurs others were scientists.

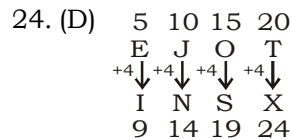
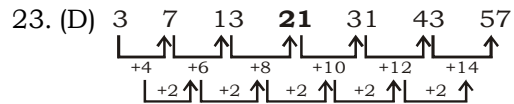
18. (D) Second number is divisible by first



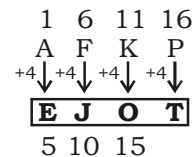
20. (D) CONVULSION



22. (C) (D) Xylophagan - 1
 (A) Xylophagus - 2
 (B) Xylophilous - 3
 (C) Xylopyrography - 4

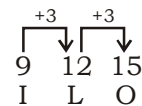
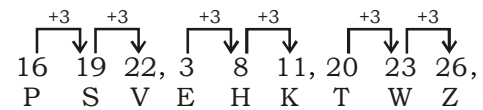


Similarly,

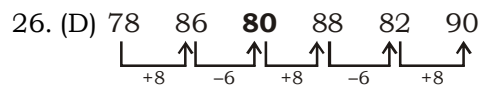
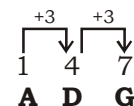


25. (D) _____, PSV, EHK, TWZ, ILO

Using alphabetical order :



Similarly,



27. (B) $4^2 = 16 = 1 + 6 = 7$
 $5^2 = 25 = 2 + 5 = 7$
 $6^2 = 36 = 3 + 6 = 9$

Similarly,

$7^2 = 49 = 4 + 9 = 13$

28. (B) Every successive digit is increased by 2 in each number.

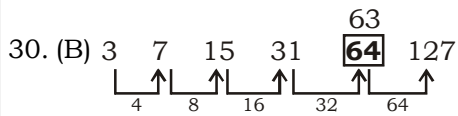
29. (A) 18 Q 12 P 4 R 5 = ?

Substituting the symbols of following alphabets

$\Rightarrow 18 \times 12 \div 4 + 5$

$\Rightarrow 18 \times 3 + 5$ [By BODMAS Rule]

$\Rightarrow 54 + 5 = 59$



31. (B) By using formula

$$\begin{aligned} \text{Average speed of car} &= \frac{2AB}{A+B} \\ &= \frac{2 \times 40 \times 60}{60 + 40} \\ &= \frac{2 \times 40 \times 60}{100} = 48 \text{ km/hr} \end{aligned}$$

33. (C) COMB

35. (C) R E Q U E S T
 $+1 \downarrow +1 \downarrow +1 \downarrow +1 \downarrow +1 \downarrow +1 \downarrow +1 \downarrow$
 S 2 R 5 2 T U

[only vowels are coded in numerals]

Similarly,

R E T E S T
 $\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$
S 2 U 2 T U

36. (C) In first diagram

$$\frac{156}{12} + 2 = 13 + 2 = 15$$

In second diagram

$$\frac{323}{17} + 2 = 19 + 2 = 21$$

Similarly in third diagram

$$\frac{525}{25} + 2 = 21 + 2 = 23$$

37. (C) $(6 \div 2) + (11 \times 2) \Rightarrow 25$

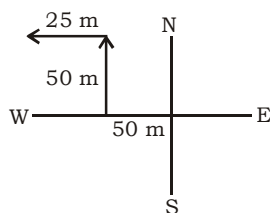
$$(8 \div 2) + (6 \times 2) \Rightarrow 16$$

$$\text{then, } (x \div 2) + (5 \times 2) = 16$$

$$\frac{x}{2} + 10 = 16 \Rightarrow \frac{x}{2} = 16 - 10 \Rightarrow \frac{x}{2} = 6$$

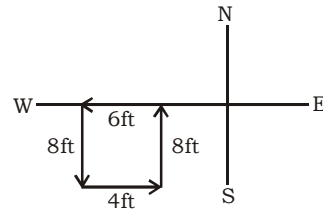
$$\therefore x = 6 \times 2 = 12$$

39. (B) Towards west

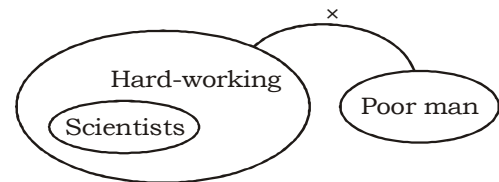


40. (D) Resultant distance

$$6 - 4 = 5\text{ft}$$



45. (C)



109. (C) (c)

Year	Population	Decadal increase
1970	40,000	6000
1980	46,000	7000
1990	53,000	5000
2000	58,000	

$$\text{Design growth rate} = \frac{6000 + 7000 + 5000}{3}$$

$$= 6000 \text{ per decade}$$

In 2010 population will be

$$P = 58000 + 6000 = 64000$$

118. (B) Given, S = 100%

$$\therefore W = \frac{Se}{G} = \frac{100 \times 0.78}{2.60} = 30\%$$

122. (D) The sample A is single drained and sample B is double drained. The sample B

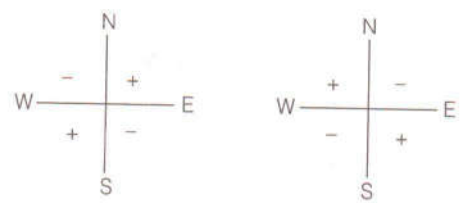
will take only $\frac{1}{2}$ of time that required in sample A.

126. (D) For Raft foundation on sand maximum permissible settlement is 40 to 65 mm. the permissible differential settlement is 25 mm. For raft foundation on clay, limiting maximum settlement 65 to 100 mm. Maximum differential settlement 40 mm.

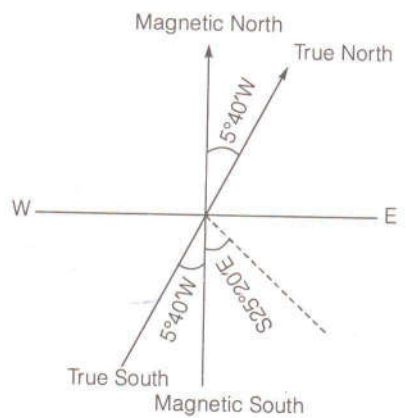
130. (A) Correct length of tape = $\frac{500}{502} \times 2 = 19.92m$

134. (B) Note that negative (W) declination should be added to quadrantal bearing in second and fourth quadrant i.e. N0W or S0E and it should be subtracted from quadrantal bearing in first and third quadrant i.e. N0E

and S0W. Reverse should be done for positive (E) declination.



For Positive Declination For Negative Declination
True bearing = S 25° 20' E + 5° 40'
= S 31° 0' E



155. (D) With the same-mean radius, same wall thickness and subjected to same internal pressure, the hoop stress induced in a thin spherical vessel is half of that setup in a cylindrical vessel.

163. (D) Compressibility of a fluid characterises its ability to change its volume under pressure. The relative change of volume per unit pressure is given by the coefficient of compressibility:

$$\beta_c = -\frac{dv/v}{dp}$$

164. (C) $\tau = \frac{\mu}{\rho} = \frac{0.012 \times 0.1}{950}$
= 12.63 × 10⁻⁴ m²/ s = 12.63 stokes

182. (D) $\alpha_{cu} > \alpha_{st}$
Cu = compressive
st = tensile
If both clamped then only compressive

187. (A) Compressive force = 0.36 f_{ck} X_{ub}

$$(xu)_{limit} = \frac{700}{1100 + 0.87Fy}$$

Mild = Fe 250

197. (C) $\delta = \frac{span}{325}$